

Gruen, Andrea M - DNR

From: Wakker Dairy <wakkerdairy@gmail.com>
Sent: Thursday, December 6, 2018 4:19 PM
To: Gruen, Andrea M - DNR
Subject: [WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]Manure spill report
Attachments: Manure Spill Report Dec 2018.docx; Manure collections Dec 2018.xlsx; Manure spill map Dec2018.pdf; tile outlet BD1234.jpg; sump BD1234 120418.jpg; MP1 113018.jpg; filled in sump BD1234.jpg; sump BD1234 120518.jpg

Here is the manure spill report. Let me know if you have any questions.

Thanks
Eric

--
Eric Holverson
Manager, Wakker Dairy Farm
N2348 State Highway 42
Kewaunee, WI 54216
931-316-5142
wakkerdairy@gmail.com



Gruen, Andrea M - DNR

Mon, Dec 3,
9:48 AM (3
days ago)

to me, Todd, johanneswakker@yahoo.com, Karl, Richard

Eric,

As we discussed on site, the required report of noncompliance per WPDES Permit requirements is due five days after the discovered date of noncompliance (Wednesday, December 5, 2018).

Below is the list of general questions to be addressed in this report. This report also typically satisfies the reporting requirement referenced in the RP Packet that you will be receiving separately from the Spills Program.

1. Name, address, phone number for responsible parties.
Wakker Dairy Farm, N2348 St Hwy 42, Kewaunee, WI 54216. Eric Holverson, Farm Manager. 931-316-5142
2. Sketch of the site or map with relevant features labeled; flow path, sumps, berms, pumping areas, etc.

see attachment

3. Duration of spill: When it was first discovered, when cleanup efforts were started and when cleanup efforts were concluded.

The spill field MP1 was discovered on November 30, 2018. Ponded manure was discovered on Albrect Front on November 30, 2018. The spill on BD1234 was discovered on Dec 1, 2018. The ponded manure on Koehler 4-7-11 was discovered on December 3. Cleanup began immediately when each occurrence was observed. Albrect Front was concluded on December 1, 2018. MP1 and BD12324 were concluded December 2, 2018 and Koehler 4-7-11 was concluded on December 6, 2018

4. A description of conditions that led to the spill occurring.

The soil had a lot of water in it from the wet fall and manure that was applied was very thin and watery allowing it to go through the soil on MP1 and BD1234. This also caused ponding on Albrect Front. Rain in excess of two inches caused ponding of manure on Koehler 4-7-11

5. A description of cleanup and containment actions, including approximate dates and times **MP1: Ditch was bermed to prevent water from going downstream and liquid was collected. Water went over berm on the night of December 1, 2018 following rain storm. Remainder of berm removed on December 6, 2018. Albrect Front: manure was incorporated on November 30, 2018 and December 1, 2018. Water was collected from the stream between the dairy and the manure pit and pumped back to the manure pit November 30, 2018. Stopped collecting on December 1, 2018. BD1234: A collection sump was dug by tile line to collect liquid on December 1, 2018 and manure collected. Sump filled in on December 6, 2018. Koehler 4-7-11: Liquid was collected December 3-5, 2018. Area will be worked when conditions permit.**

6. Photos of cleanup activities or impacted areas post-cleanup.
See attachment
 7. An estimate of the amount of liquid recovered, or billing logs from the pumping companies if they use a per gallon/load billing system (if applicable).
See attachment
 8. A description of where reclaimed liquid was taken (e.g. which manure pit(s) it was taken to or which field(s) it was applied on including rate, method of application, etc; if applicable). **All liquid that was collected was put in Wakker Pit #3.**
 9. A confirmation that any temporary berms, sumps, or other structures placed in public right-of-way have been returned to their original state.
All berms and sumps have been returned to their original state.
 10. A description of proposed actions/changes to prevent future similar incidents.
Manure in pit 3 is very diluted because we collect all leachate from the feed pad, amount of precipitation this year, running manure through a methane digester and separator, and pit 3 is filled from overflow from pit 4. Going forward we are going to apply pit 3 at a reduced rate to our hay fields in summer and we will mix pit 3 and pit 4 before we apply in fall to corn ground.
- Feel free to contact me if you have any questions.

Andrea

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Andrea Gruen

Agricultural Runoff Management Specialist

Wisconsin Department of Natural Resources

2984 Shawano Ave.

Green Bay, WI 54313

Phone: (920) 662-5460

Fax: (920) 662-5498

Andrea.Gruen@Wisconsin.gov<mailto:Andrea.Gruen@Wisconsin.gov>

Wakker Dairy

<u>Date</u>	<u>area collected</u>	<u>gallons collected</u>	<u>Driver/Company</u>
11/30/2018	tile outlet MP1	11,000	Arrow Sanitation
11/30/2018	creek behind dairy	91,000	Greg Stodola
12/1/2018	tile outlet MP1	5,500	Arrow Sanitation
12/1/2018	tile outlet MP1	22,000	Eric
12/1/2018	tile outlet BD1234	1,500	Eric
12/2/2018	tile outlet BD1234	5,500	Arrow Sanitation
12/2/2018	tile outlet MP1	2,000	Eric
12/3/2018	Koehler 4-7-11	22,000	Arrow Sanitation
12/4/2018	Koehler 4-7-11	94,000	Arrow Sanitation
12/5/2018	Koehler 4-7-11	16,500	Arrow Sanitation
Total		271,000	

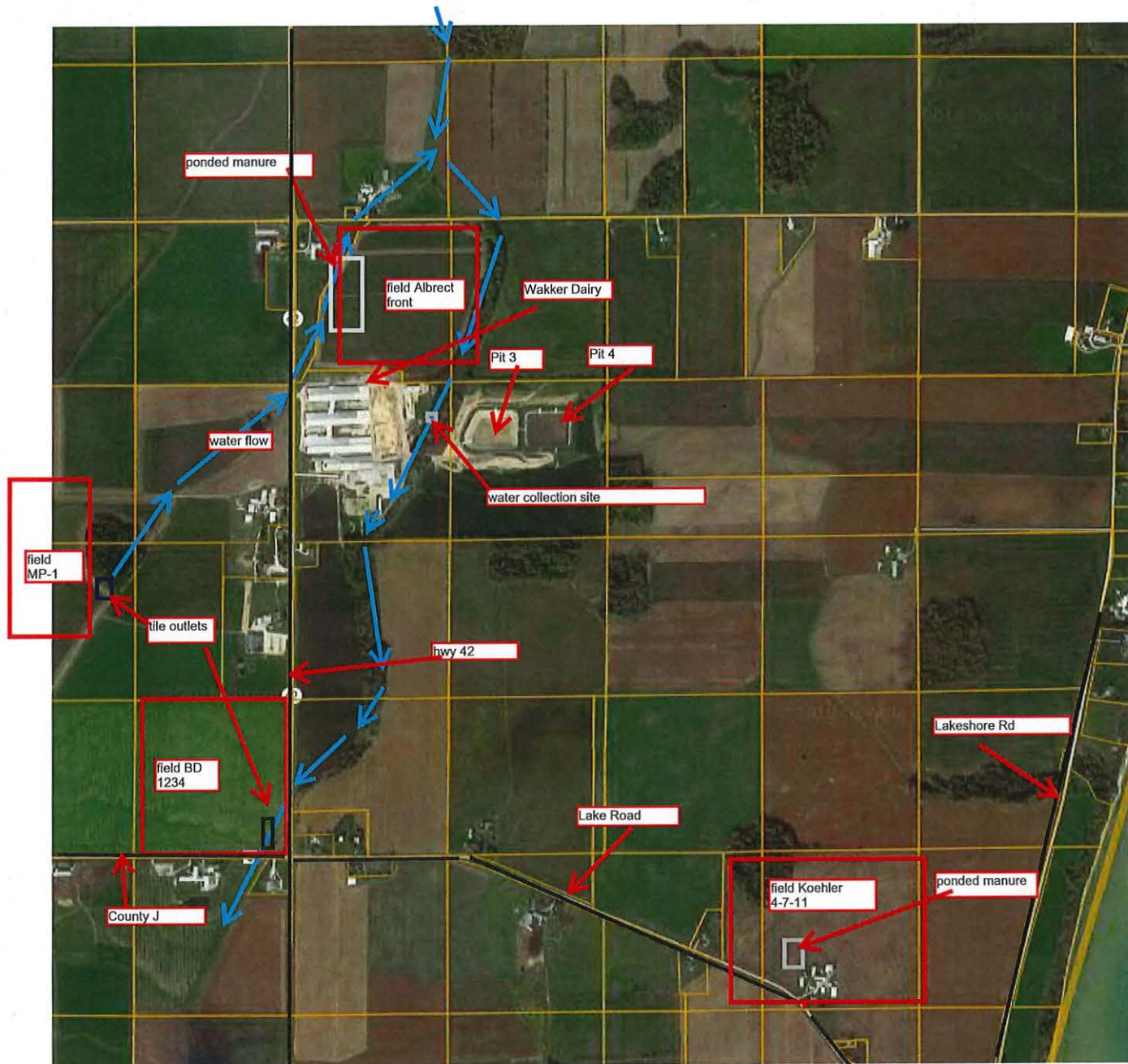












Gruen, Andrea M - DNR

From: Wakker Dairy <wakkerdairy@gmail.com>
Sent: Thursday, December 6, 2018 4:23 PM
To: Gruen, Andrea M - DNR
Subject: more pics
Attachments: cleaned berm MP1 a.jpg; tile outlet MP! 120618.jpg; cleaned berm MP1 b.jpg

Andrea,

Here are the rest of the pics that wouldn't fit with last email.

Eric

--

Eric Holverson
Manager, Wakker Dairy Farm
N2348 State Highway 42
Kewaunee, WI 54216
931-316-5142
wakkerdairy@gmail.com







Joslin, Richard R - DNR

From: Fry, Sara M - DNR
Sent: Monday, December 3, 2018 12:47 PM
To: Joslin, Richard R - DNR
Subject: RE: Significant Spill Email - Kewaunee County (Unknown Responsible Party)
Attachments: RE: Wakker Dairy Manure Spill

Hi Rick,

Attached is a copy of the email that I sent to Andrea Gruen this morning about the concern for private well impacts with this spill.

I don't expect any impacts due to the geology around the area (a lot of clay) and a general lack of homes in the area – I noted maybe 5 south of the fields, but as always they should call if they notice changes.

Thanks,

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Sara Fry

Phone: (920) 662-5147 Cell: (920) 360-2688

SaraM.Fry@wisconsin.gov

From: Merry, JaNelle P - DNR
Sent: Monday, December 3, 2018 12:11 PM
To: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>
Cc: Nessman, Martin D - DNR <Martin.Nessman@wisconsin.gov>; Fry, Sara M - DNR <SaraM.Fry@wisconsin.gov>
Subject: RE: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

Hi Rick,

I've forwarded your message to Sara Fry, the Private Water Supply Specialist that handles Kewaunee Co. For your records here is an updated map of the Private Water county coverage.

Let me know if you have any questions or if I can be of assistance.

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JaNelle Merry

Phone: 920-662-5172

JaNelle.Merry@wisconsin.gov

From: Joslin, Richard R - DNR
Sent: Monday, December 3, 2018 10:30 AM
To: Merry, JaNelle P - DNR <JaNelle.Merry@wisconsin.gov>

Cc: Kasdorf, James H Jr - DNR <James.KasdorfJr@wisconsin.gov>

Subject: FW: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

JaNelle

Hope things are well and you had a nice Thanksgiving. Crazy to think Christmas is almost here.

Anyway with regard to Wakker Dairy, Rob (Dept of Health) asked the question below about any concern with private wells as a result of this release. My feeling with this is that when we have a runoff event the manure becomes very diluted much more so than what is applied and leaches down from the field. I don't see much of a reason to have concern with runoff into a water surface feature unless the water becomes very concentrated with manure or the water feature has very little to no flow and is within close proximity to a private well. I know in certain areas where bedrock is shallow (ie Kewaunee County) it can be a different story.

In this case I believe that there is little to no concern with impacts to private wells but want to run it past your program. My understanding with Wakker Dairy is that they run their manure through a digester and field apply the final product. The final product is mainly liquid with little solids that if field applied.

What are your thoughts with this?

And Jim I apologize for not including you on the Significant Spill Email and follow-up that I sent this morning (assuming you are the person for Kewaunee County). I attached the last email I sent this morning.

Thanks for your help with this!

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731

Phone: (920) 424-7077

Cell Phone: (920) 360-4291

Richard.Joslin@Wisconsin.gov



dnr.wi.gov



From: Thiboldeaux, Robert L - DHS

Sent: Monday, December 3, 2018 8:29 AM

To: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>

Subject: RE: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

Rick: anything more to report on this spill? Any potential for DW well impacts? From the map link, it looks to be close to Lake Michigan. Thanks - Rob

Robert Thiboldeaux, PhD

Senior Toxicologist

Wisconsin Bureau of Environmental and Occupational Health

Department of Health Services
Mail: 1 West Wilson Street, Rm 150
Madison, WI 53701
email: robert.thiboldeaux@wi.gov
phone: 608/267-6844
fax: 608/267-4853
web: <http://www.dhs.wisconsin.gov/>

From: Joslin, Richard R - DNR
Sent: Friday, November 30, 2018 3:38 PM
To: Chronert, Roxanne N - DNR; DNR DL NER MEDIA; DNR DL RR Media Contact; DNR DL RR SPLS TM; DNR LE DO; Fry, Sara M - DNR; Moss, Philip D - DNR; Sisbach, Steven L - DNR; Weigel, Brian M - DNR
Cc: Merry, JaNelle P - DNR; Meronek, Thomas - DNR; Burzynski, Marsha B - DNR; Baeten, Joseph B - DNR; Allen, David C - DNR; Moore, James M - DNR; Treml, Benjamin J - DNR; Protogere, George - DNR; Gruen, Andrea M - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hudak, Andrew J - DNR; Legler, Nicholas D - DNR; Hogler, Steven R - DNR; kinnardc@kewauneeco.org; Thiboldeaux, Robert L - DHS; Galbraith, Betsy; kondreck.robert@epa.gov; Kevin Erb - UW Extension; Kewaunee County - DMA; bonness.davina@kewauneeco.org; Travis Engels
Subject: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

Everyone

The Wisconsin Department of Natural Resources (Department) was notified of a manure run-off event that occurred in the vicinity of the Town of Carlton and/or Town of West Kewaunee, Kewaunee County. Information is preliminary at this time, however I wanted to send out an email summarizing what I knew.

The run-off event was called into the Department as a complaint. It has been confirmed that manure has contaminated an unnamed stream off of Town Line Road
(<https://www.google.com/maps/place/Co+Rd+G,+Wisconsin+54216/@44.4180301,-87.5334648,3184m/data=!3m1!1e3!4m5!3m4!1s0x88032a717a79ede5:0x12a1816e834b7560!8m2!3d44.3710196!4d-87.5929352>) as well as other locations. Dead fish have been observed. The source of the manure is unknown. Department and Kewaunee County staff are on-scene trying to identify the source of manure.

Will share additional information when available.

Thanks

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731
Phone: (920) 424-7077
Cell Phone: (920) 360-4291
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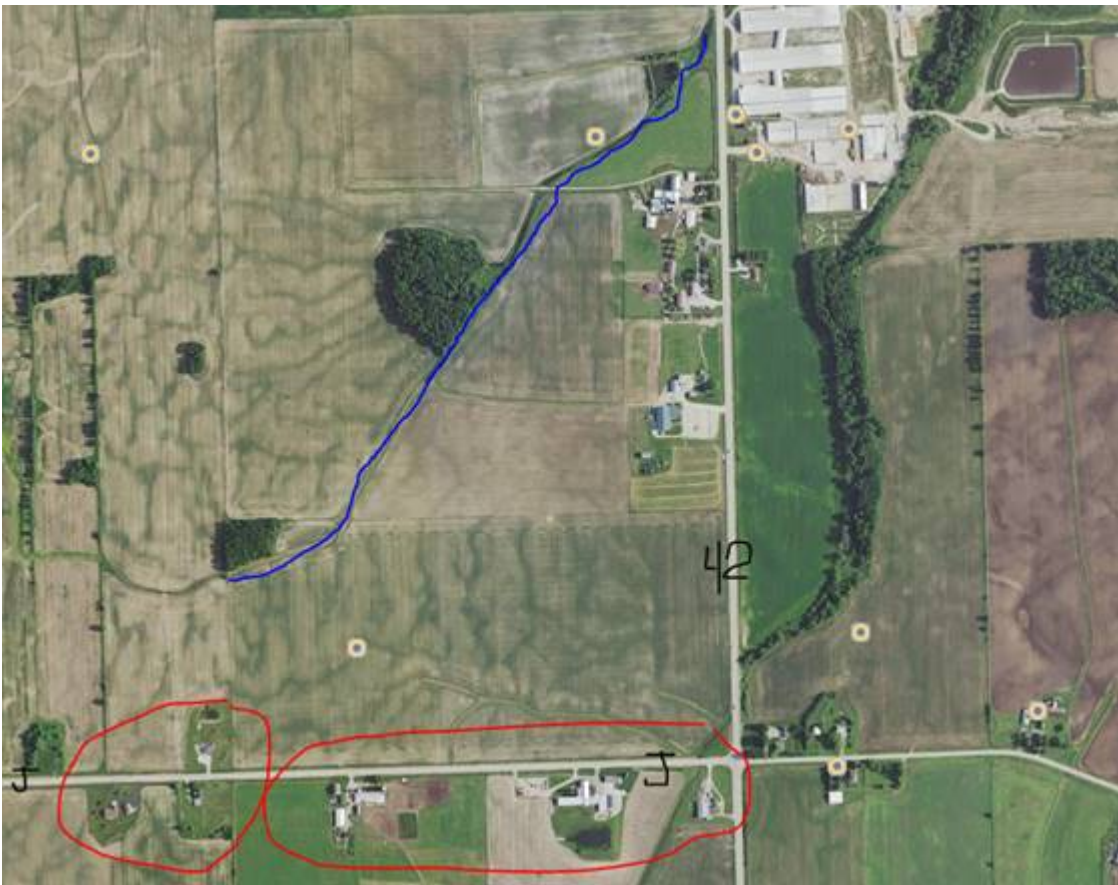
Joslin, Richard R - DNR

From: Fry, Sara M - DNR
Sent: Monday, December 3, 2018 9:49 AM
To: Gruen, Andrea M - DNR
Subject: RE: Wakker Dairy Manure Spill

Hi Andrea,

I don't anticipate any well impacts as this area of Kewaunee county has around 100ft of clay on top of the bedrock and the wells are generally cased to 100ft or more.

The only wells I would anticipate having the potential for impact would be those closest to the fields along Hwy J where manure was applied (see red circle in image below).



As always, if anyone in the area notices changes in their water quality (smell, color, foaming) or they have an E. coli positive water test, they should contact DNR immediately so we can begin assessing any impacts to their well.

Thanks,

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Sara Fry

Phone: (920) 662-5147 Cell: (920) 360-2688

SaraM.Fry@wisconsin.gov

From: Gruen, Andrea M - DNR
Sent: Monday, December 3, 2018 9:21 AM
To: Fry, Sara M - DNR <SaraM.Fry@wisconsin.gov>
Cc: Merry, JaNelle P - DNR <Janelle.Merry@wisconsin.gov>
Subject: FW: Wakker Dairy Manure Spill

Good morning Sara,

JaNelle Merry requested that I forward the message string below to you regarding a manure spill in Kewaunee County. Please let me know if you need any additional facts to make your determination.

Thank you,
Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Merry, JaNelle P - DNR
Sent: Monday, December 3, 2018 9:19 AM
To: Gruen, Andrea M - DNR <Andrea.Gruen@wisconsin.gov>
Subject: RE: Wakker Dairy Manure Spill

Hi Andrea,
I'm out in the field

Please forward this to Sara fry the private water supply specialist for kewaunee co.

-----Original Message-----

From: Gruen, Andrea M - DNR [Andrea.Gruen@wisconsin.gov]
Received: Monday, 03 Dec 2018, 8:58AM
To: Merry, JaNelle P - DNR [Janelle.Merry@wisconsin.gov]
Subject: FW: Wakker Dairy Manure Spill

Good morning JaNelle,

I was contacted by the State Dept. of Health this morning regarding the spill referenced below in Kewaunee County inquiring if we suspected any well contamination as a result of the spill. Would you mind taking a look at the aerial map provided below of the flow path and letting me know what you think? The spill was in the Town of Carlton along Hwy 42 between Townline Rd and eventually discharging into Lake MI just north of Sandy Bay Rd. Please let me know if you need any additional information.

Thank you,
Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Gruen, Andrea M - DNR

Sent: Friday, November 30, 2018 6:27 PM

To: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>; Baeten, Joseph B - DNR <Joseph.Baeten@wisconsin.gov>; Olson, Beth J - DNR <Beth.Olson@wisconsin.gov>; Moore, James M - DNR <JamesM.Moore@wisconsin.gov>; Collins, Patrick J - DNR <Patrick.Collins@wisconsin.gov>

Cc: Carviou, Erin E - DNR <Erin.Carviou@wisconsin.gov>; Davina Bonness <bonness.davina@kewauneeco.org>; Travis Engels <engels.travis@kewauneeco.org>; Gansberg, Mary K - DNR <Mary.Gansberg@wisconsin.gov>; Rombach-Bartels, Jean - DNR <Jean.RombachBartels@wisconsin.gov>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>

Subject: Wakker Dairy Manure Spill

All,

This email is intended to provide a brief update on the Wakker Dairy manure spill that was discovered this afternoon in the Town of Carlton, Kewaunee County. Manure-laden water was observed within several miles of waterway, which eventually discharges into Lake Michigan. After over four hours of field investigation by CAFO, Nonpoint, Wardens and County staff, the source of the manure was found to be from two different land application sites that had received manure applications by Wakker Dairy. Two dead salmon were observed within the unnamed tributary affected by the spill. Below is a map of the affected waterways.

Wakker Dairy is currently working with the Department to clean up the spill by pumping from the unnamed tributary at three different locations. I will be following up with the farm tomorrow morning and likely going out on site to observe cleanup actions.



Please feel free to contact me if you have any questions.

Andrea

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Andrea Gruen

Agricultural Runoff Management Specialist
Wisconsin Department of Natural Resources
2984 Shawano Ave.

Green Bay, WI 54313

Phone: (920) 662-5460

Fax: (920) 662-5498

Andrea.Gruen@Wisconsin.gov



dnr.wi.gov



Joslin, Richard R - DNR

From: Joslin, Richard R - DNR
Sent: Monday, December 3, 2018 9:45 AM
To: Chronert, Roxanne N - DNR; DNR DL NER MEDIA; DNR DL RR Media Contact; DNR DL RR SPLS TM; DNR LE DO; Fry, Sara M - DNR; Moss, Philip D - DNR; Sisbach, Steven L - DNR; Weigel, Brian M - DNR
Cc: Merry, JaNelle P - DNR; Meronek, Thomas - DNR; Burzynski, Marsha B - DNR; Baeten, Joseph B - DNR; Allen, David C - DNR; Moore, James M - DNR; Trembl, Benjamin J - DNR; Protogere, George - DNR; Gruen, Andrea M - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hudak, Andrew J - DNR; Legler, Nicholas D - DNR; Hogler, Steven R - DNR; kinnardc@kewauneeco.org; Thiboldeaux, Robert L - DHS; Galbraith, Betsy; kondreck.robert@epa.gov; Kevin Erb - UW Extension; Kewaunee County - DMA; bonness.davina@kewauneeco.org; Travis Engels
Subject: FW: Wakker Dairy Manure Spill
Attachments: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

All

See Andrea's email below summarizing cleanup efforts associated with Wakker Dairy. This is in regard to the Significant Spill Email (attached) that was sent out Friday afternoon. At the time the email was sent it was unknown what was the source of manure identified in an unnamed stream was and who was responsible for the discharge. It appears that the manure discharging from a field tile line has stopped and/or is contained at this time.

Special thank you to Kewaunee County and the DNR staff who worked hard on this situation Friday late afternoon and over the weekend!

Thanks

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731

Phone: (920) 424-7077

Cell Phone: (920) 360-4291

Richard.Joslin@Wisconsin.gov



dnr.wi.gov



From: Gruen, Andrea M - DNR

Sent: Sunday, December 2, 2018 8:30 PM

To: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>; Olson, Beth J - DNR <Beth.Olson@wisconsin.gov>; bonness.davina@kewauneeco.org; Moore, James M - DNR <JamesM.Moore@wisconsin.gov>; Collins, Patrick J - DNR <Patrick.Collins@wisconsin.gov>; Baeten, Joseph B - DNR <Joseph.Baeten@wisconsin.gov>

Cc: Gansberg, Mary K - DNR <Mary.Gansberg@wisconsin.gov>; engels.travis@kewauneeco.org; Carviou, Erin E - DNR

<Erin.Carviou@wisconsin.gov>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>; Roovers, Karl P - DNR <Karl.Roovers@wisconsin.gov>

Subject: RE: Wakker Dairy Manure Spill

All,

Warden Moore and I checked on the Wakker Dairy spill site this afternoon. Collection of manure-laden water at both of the collection locations had ceased as of yesterday evening.

Tile Outlet Location: The farm had stated that the tile outlet location had started running clear from all of the rain as of late yesterday afternoon. This afternoon I observed sediment-laden water from the recent precipitation actively flowing at this location. The farm will be notified to remove the berm from the waterway as soon as equipment can access that location.

Broken Tile Sump Location: The farm had collected one load (approximately 1,500 gallons) from this location yesterday. Due to the slow rate of flow from the tile line, the farm had planned to let the sump fill up overnight and continue collecting in the morning, however they could not access the broken tile line sump this morning due to the wet conditions in the field resulting in the sump filling up with tile water and surface flow off of the field and overflowing to the unnamed tributary. At the time of my visit, the water within the sump visually appeared to be sediment-laden and not manure-laden. The farm was unable to confirm that the tile line was no longer flowing with manure due to the water levels within the sump, so Arrow Sanitation was contacted to collect water from the sump so the tile line flow could be observed. However, the water was flowing into the sump as fast as the vac truck could pull it out, so based on the condition of the water in the sump the call was made to discontinue collecting liquid at this location. The next few days should be dry, so if manure-laden water is still flowing to the sump from the tile line it should be visually apparent and collection efforts will resume. I will plan on checking on this location daily for the next few days to ensure that if that happens the farm takes appropriate actions to mitigate further resource impacts.

Please feel free to contact me if you have any questions. Thank you very much to the County LWCD for providing weekend support, and to Warden Moore for braving the winter storm and getting his new truck muddy to provide assistance during this spill.

Have a great evening,
Andrea

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Andrea Gruen

Phone: (920) 662-5460

Andrea.Gruen@Wisconsin.gov

From: Joslin, Richard R - DNR

Sent: Saturday, December 1, 2018 4:48 PM

To: Olson, Beth J - DNR <Beth.Olson@wisconsin.gov>; Gruen, Andrea M - DNR <Andrea.Gruen@wisconsin.gov>; bonness.davina@kewauneeco.org; Moore, James M - DNR <JamesM.Moore@wisconsin.gov>; Collins, Patrick J - DNR <Patrick.Collins@wisconsin.gov>; Baeten, Joseph B - DNR <Joseph.Baeten@wisconsin.gov>

Cc: Rombach-Bartels, Jean - DNR <Jean.RombachBartels@wisconsin.gov>; Gansberg, Mary K - DNR <Mary.Gansberg@wisconsin.gov>; engels.travis@kewauneeco.org; Carviou, Erin E - DNR <Erin.Carviou@wisconsin.gov>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>

Subject: RE: Wakker Dairy Manure Spill

I just got off the phone with Eric and he said Mike LaCrosse did stop out and broke the tile line. He also dug a sump that they are now pumping from in addition to one other spot. Eric indicated that the manure contaminated water was contained to the sump and all liquids are being hauled to their manure pit and/or digester.

-----Original Message-----

From: Davina Bonness [bonness.davina@kewauneeco.org]

Received: Saturday, 01 Dec 2018, 3:23PM

To: Gruen, Andrea M - DNR [Andrea.Gruen@wisconsin.gov]; Joslin, Richard R - DNR [Richard.Joslin@wisconsin.gov]; Baeten, Joseph B - DNR [Joseph.Baeten@wisconsin.gov]; Olson, Beth J - DNR [Beth.Olson@wisconsin.gov]; Moore, James M - DNR [JamesM.Moore@wisconsin.gov]; Collins, Patrick J - DNR [Patrick.Collins@wisconsin.gov]

CC: Carviou, Erin E - DNR [Erin.Carviou@wisconsin.gov]; Travis Engels [engels.travis@kewauneeco.org]; Gansberg, Mary K - DNR [Mary.Gansberg@wisconsin.gov]; Rombach-Bartels, Jean - DNR [Jean.RombachBartels@wisconsin.gov];

Chronert, Roxanne N - DNR [Roxanne.Chronert@wisconsin.gov]

Subject: Re: Wakker Dairy Manure Spill

New update: Lacross is on his way to break tile and they will resume pumping-both spots with vac tanks. They are on the way now

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From: Davina Bonness <bonness.davina@kewauneeco.org>

Sent: Saturday, December 1, 2018 3:08 PM

To: Gruen, Andrea M - DNR; Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR

Cc: Carviou, Erin E - DNR; Travis Engels; Gansberg, Mary K - DNR; Rombach-Bartels, Jean - DNR; Chronert, Roxanne N - DNR

Subject: Re: Wakker Dairy Manure Spill

Update...Travis just called me and wakker has NOT started any cleanup/pumping today. Eric Halvorson was advised by Travis as Andrea stated earlier to break the tile and create a sump to pump out of. The manure laden water continues to move farther and farther downstream. Travis will be leaving shortly because he works tonight in gb.

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From: Davina Bonness <bonness.davina@kewauneeco.org>

Sent: Saturday, December 1, 2018 1:04 PM

To: Gruen, Andrea M - DNR; Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR

Cc: Carviou, Erin E - DNR; Travis Engels; Gansberg, Mary K - DNR; Rombach-Bartels, Jean - DNR; Chronert, Roxanne N - DNR

Subject: Re: Wakker Dairy Manure Spill

Great thank you for all your help! We all appreciate it very much!

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From: Gruen, Andrea M - DNR <andrea.gruen@wisconsin.gov>

Sent: Saturday, December 1, 2018 12:48 PM

To: Davina Bonness; Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR

Cc: Carviou, Erin E - DNR; Travis Engels; Gansberg, Mary K - DNR; Romback-Bartels, Jean - DNR; Chronert, Roxanne N - DNR

Subject: Re: Wakker Dairy Manure Spill

Thanks, Davina. I've been in touch with Travis and the farm. They've been advised to break the tile line at the second location and begin collecting. Travis said he would check back on their progress later this afternoon and I will stop by tomorrow. Also, the dead fish Travis observed were the ones we already observed yesterday. Any questions, feel free to call my cell at 920-367-3007.

Andrea

From: Davina Bonness <bonness.davina@kewauneeco.org>

Sent: Saturday, December 1, 2018 12:16:51 PM

To: Gruen, Andrea M - DNR; Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR

Cc: Carviou, Erin E - DNR; Travis Engels; Gansberg, Mary K - DNR; Romback-Bartels, Jean - DNR; Chronert, Roxanne N - DNR

Subject: Re: Wakker Dairy Manure Spill

Good afternoon all. Travis is onsite and manure is still coming out the tile and he is seeing more dead salmon. He is in contact with Andrea, but I think wakker should continue to clean up before this storm. Please advise. Travis number is+1 (920) 304-1551. He just sent me this picture Off j and 42 I believe Thanks Davina [Image]

Get Outlook for iOS<<https://aka.ms/o0ukef>>

From: Gruen, Andrea M - DNR <andrea.gruen@wisconsin.gov>

Sent: Friday, November 30, 2018 6:28 PM

To: Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR

Cc: Carviou, Erin E - DNR; Davina Bonness; Travis Engels; Gansberg, Mary K - DNR; Romback-Bartels, Jean - DNR; Chronert, Roxanne N - DNR

Subject: Wakker Dairy Manure Spill

All,

This email is intended to provide a brief update on the Wakker Dairy manure spill that was discovered this afternoon in the Town of Carlton, Kewaunee County. Manure-laden water was observed within several miles of waterway, which eventually discharges into Lake Michigan. After over four hours of field investigation by CAFO, Nonpoint, Wardens and County staff, the source of the manure was found to be from two different land application sites that had received manure applications by Wakker Dairy. Two dead salmon were observed within the unnamed tributary affected by the spill. Below is a map of the affected waterways.

Wakker Dairy is currently working with the Department to clean up the spill by pumping from the unnamed tributary at three different locations. I will be following up with the farm tomorrow morning and likely going out on site to observe cleanup actions.

[[cid:image001.png@01D488D9.BACD1430](#)]

Please feel free to contact me if you have any questions.

Andrea

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Andrea Gruen
Agricultural Runoff Management Specialist
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<<http://www.flickr.com/photos/widnr/>> [cid:image006.png@01D488D9.BACD1430]
<<http://www.youtube.com/user/WIDNRTV>> [cid:image007.png@01D488D9.BACD1430] <<http://dnr.wi.gov/rss/>>

Joslin, Richard R - DNR

From: Gruen, Andrea M - DNR
Sent: Friday, November 30, 2018 6:27 PM
To: Joslin, Richard R - DNR; Baeten, Joseph B - DNR; Olson, Beth J - DNR; Moore, James M - DNR; Collins, Patrick J - DNR
Cc: Carviou, Erin E - DNR; Davina Bonness; Travis Engels; Gansberg, Mary K - DNR; Rombach-Bartels, Jean - DNR; Chronert, Roxanne N - DNR
Subject: Wakker Dairy Manure Spill

All,

This email is intended to provide a brief update on the Wakker Dairy manure spill that was discovered this afternoon in the Town of Carlton, Kewaunee County. Manure-laden water was observed within several miles of waterway, which eventually discharges into Lake Michigan. After over four hours of field investigation by CAFO, Nonpoint, Wardens and County staff, the source of the manure was found to be from two different land application sites that had received manure applications by Wakker Dairy. Two dead salmon were observed within the unnamed tributary affected by the spill. Below is a map of the affected waterways.

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Please feel free to contact me if you have any questions.

Andrea

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Andrea Gruen

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Fax: (920) 662-5498
Andrea.Gruen@Wisconsin.gov



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Joslin, Richard R - DNR

From: Joslin, Richard R - DNR
Sent: Friday, November 30, 2018 3:38 PM
To: Chronert, Roxanne N - DNR; DNR DL NER MEDIA; DNR DL RR Media Contact; DNR DL RR SPLS TM; DNR LE DO; Fry, Sara M - DNR; Moss, Philip D - DNR; Sisbach, Steven L - DNR; Weigel, Brian M - DNR
Cc: Merry, JaNelle P - DNR; Meronek, Thomas - DNR; Burzynski, Marsha B - DNR; Baeten, Joseph B - DNR; Allen, David C - DNR; Moore, James M - DNR; Trembl, Benjamin J - DNR; Protogere, George - DNR; Gruen, Andrea M - DNR; Uvaas, Benjamin J - DNR; Gansberg, Mary K - DNR; Hudak, Andrew J - DNR; Legler, Nicholas D - DNR; Hogler, Steven R - DNR; 'kinnardc@kewauneeco.org'; Thiboldeaux, Robert L - DHS; Galbraith, Betsy; kondreck.robert@epa.gov; Kevin Erb - UW Extension; Kewaunee County - DMA; 'bonness.davina@kewauneeco.org'; 'Travis Engels'
Subject: Significant Spill Email - Kewaunee County (Unknown Responsible Party)

Everyone

The Wisconsin Department of Natural Resources (Department) was notified of a manure run-off event that occurred in the vicinity of the Town of Carlton and/or Town of West Kewaunee, Kewaunee County. Information is preliminary at this time, however I wanted to send out an email summarizing what I knew.

The run-off event was called into the Department as a complaint. It has been confirmed that manure has contaminated an unnamed stream off of Town Line Road

(<https://www.google.com/maps/place/Co+Rd+G,+Wisconsin+54216/@44.4180301,-87.5334648,3184m/data=!3m1!1e3!4m5!3m4!1s0x88032a717a79ede5:0x12a1816e834b7560!8m2!3d44.3710196!4d-87.5929352>) as well as other locations. Dead fish have been observed. The source of the manure is unknown. Department and Kewaunee County staff are on-scene trying to identify the source of manure.

Will share additional information when available.

Thanks

Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

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